

Overview of CSU Agricultural Experiment Station

Mission
 Conduct research supporting an agriculture that is economically viable, environmentally sustainable, and socially acceptable



AES Programs

- Animal Production Systems
- Plant Production Systems
- Natural Resources and Environment
- Nutrition and Food Safety
- Community Resource Development

CSU Departments with AES Research

- Animal Sciences
- Atmospheric Sciences
- Horticulture & Landscape Architecture
- Food Science & Human Nutrition
- Bioagric. Sciences & Pest Management
- Health & Exercise Science
- Soil & Crop Sciences
- Human Development & Family Studies
- Agric. & Resource Economics
- Statistics
- Biology
- Forest, Rangeland, and Watershed Stewardship
- Biomedical Sciences
- History
- Civil & Environmental Engineering

Wheat Program

Period	Benefit	Cost	Benefit/Cost
2011	\$61.5M	\$3.22M	19:1
1974-2011	\$19.8M	\$2.8M	7:1

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ANNUALIZATION OF COLORADO STATE UNIVERSITY WHEAT BREEDING PROGRAM FUNDING SOURCE: NATIONAL INSTITUTE FOR FOOD AND AGRICULTURE, U.S. DEPARTMENT OF AGRICULTURE

For more information, please visit www.csu.edu/ces/wheat/

Program of Research and Scholarly Excellence

Center for Meat Safety and Quality



Economic benefit: Reduced food-borne illness and deaths; decreased recall of contaminated meat; increased meat exports

Program of Research and Scholarly Excellence

Lysimeter at Arkansas Valley Research Center, Rocky Ford



- * Colorado Climate Center
 - * COAgMet network of automated stations
 - * Weather data available to public via internet
 - * Compute ET
 - * Impact: irrigation, water resources, emergency planning, engineering and construction
- * Lysimeter determines water use by crops
- * Application of data to the region depends on robust weather station network
- Collaboration with CWCB for long-term funding

Impact of Selected AES Research

Research Program	Annual Economic Impact, \$M
Release of improved wheat varieties	20
Release of improved potato varieties	14
Adoption of more intense dryland cropping systems	22
Disease prevention and control in onions	5
Identification of biomarker for brisket disease in beef cattle	10
Decision support systems for livestock	7
Total annual impact	\$76M
Total Colorado AES state funding: ~\$12M	

